

# OPTICAL FIBER FUSION SPLICER

## S177A Series Core-Alignment Fusion Splicer



### DESCRIPTION

The new hand-held FITELE S177A incorporates an improved heating design that cuts splice-to-heat time by 40 percent, achieving a 9-second splice time and 37-second heat time. The unit's T-shaped body design is also 40 percent lighter, weighing only 4.85 pounds including battery. Ideal for fast field use, the S177A reduces the fiber length required for splicing by 30 percent. In addition, fiber magnification power is 608X, marking the industry's most powerful rating for a core alignment splicer.

### SPECIFICATIONS

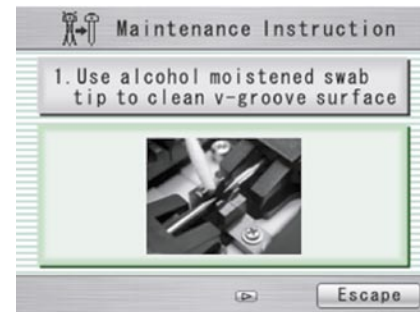
| ITEM               | DESCRIPTION  |
|--------------------|--|
| Splicing Method    | Core-Alignment   |
| Fiber Type(1)      | SMF, MMF, DSF, NZDSF, EDF, TW, LF, HI1060, and many more                             |
| Cladding Diameter  | 80µm - 220µm   |
| Coating Diameter   | 100µm - 1000µm   |
| Average Loss (2)   | SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB  |
| Splice Time        | 9 sec.   |
| Heat Time          | 37-second (40mm), 51-second (60mm)   |
| Applicable Sleeves | 20 - 60mm  |
| Cleave Length      | 150 - 200µm: 5mm; 250µm: 5 - 16mm; 400 / 900µm: 10, 16mm                             |
| Magnification      | Up to 608X   |
| Dimensions         | 130W x 260D x 137H (mm)  |
| Power              | AC Input: 85 to 264VAC (50/60Hz)<br>DC Input: 11 to 17VDC, Battery: Li-ion           |
| Battery            | Internal Battery - 70 splice cycles<br>External Battery (option) - 350 splice cycles |
| Splice Memory      | 2000 splices   |
| Op. Environment    | 0 - 4,000m, -10 to +50 C and 90% at 38 C   |

(1) Applied to ITU-T Standard

(2) Testing done in a laboratory environment with similar fibers. Not guaranteed results.

### FEATURES & APPLICATIONS

- Faster Splicing**  
 The S177A has a lightning fast splice time of 9 seconds. Power up your production with the S177A!
- Multiple Splicing Programs**  
 The S177A comes with 42 pre-installed splicing programs, providing optical component manufacturers with programs for specialty and dissimilar fiber splicing combinations (CS980, EDF, NZDSF, etc.).
- Built-in Battery**  
 The S177A comes with an internal battery that automatically charges when the unit is plugged into AC Power - even while splicing!
- Transreflective LCD**  
 The S177A comes equipped with a new transreflective LCD that allows for clear viewing of the splice even in direct sunlight.
- Large Data Memory Capacity**  
 Data for up to 2,000 splices can be stored in the unit. All data can also be exported to a PC through USB connection to the splicer.
- Machine Self-Check**  
 The S177A is equipped with a self diagnostic feature that can automatically verify the function of all motors, sensors, and cameras.
- Visual Guidance for Maintenance**  
 The S177A is so advanced that it even offers visual step-by-step guidance for common maintenance procedures. Simply enter the maintenance menu and select the procedure you wish to perform and the unit will provide step-by-step instruction with images.



- Available Fiber Holder System**  
 The S707 series fiber holders are an option for the S177A to ease fiber preparation and transfer to the fusion splicer.





## SEAMLESS SPLICING FROM TRUNK TO FTTX

The FITELE S177A ushers in a whole new range of applications for core-alignment splicing: It delivers the same precision, accuracy, and automated functionality of a conventional core-alignment unit, but with the speed, portability, and convenience of a hand-held splicer. The S177A becomes your versatile best choice for FTTx, LAN, backbone, or long-haul installations.



## COMPACT, LIGHTWEIGHT BODY

At nearly half the weight and size of FITELE's standard core-alignment unit, the S177A weighs only 2.2 kgs (4.85 pounds) - making it the first hand-held and most compact, lightweight core-aligning splicer in the industry. The T-shaped body design, measuring just 5 inches across, easily accommodates short fiber lengths. The magnesium alloy canopy and top base provide the rugged strength required for field operations. Highly accurate, it easily handles diverse applications - from trunk splicing to FTTx.

## PACKAGES

| P/N           | DESCRIPTION                  | S177A-01 | S177A-01-KIT | S177A-02 | S177A-02-KIT |
|---------------|------------------------------|----------|--------------|----------|--------------|
| S177-X-A-0001 | Splicer Body                 | •        | •            | •        | •            |
| S177-X-S-0002 | Spare Electrodes             | •        | •            | •        | •            |
| S177-X-A-0003 | Carrying Case                | •        | •            | •        | •            |
| S177-X-S-0004 | Manual                       | •        | •            | •        | •            |
| S177-X-S-0007 | Fiber Holder Mounts          |          | •            | •        |              |
| S177-X-S-0008 | 10mm Fiber Clamps            | •        | •            |          |              |
| S211B         | Fiber Stripper               |          | •            | •        |              |
| S325A         | One-Action Precision Cleaver |          | •            | •        |              |
| S707-250      | 250µm Fiber Holders          |          |              | •        | •            |
| S707-900      | 900µm Fiber Holders          |          |              |          | •            |
| S943          | Internal Battery             | •        | •            | •        | •            |
| S957B         | AC Adapter                   | •        | •            | •        | •            |
| D5111         | Electrode Cleaning Disk      | •        | •            | •        | •            |
| FPF-01        | Fiber Preparation Fluid      |          | •            |          | •            |
| FW-01         | Fiber Wipes                  |          | •            |          | •            |

## NEW GUI & LCD SCREEN

Featuring a new GUI (graphical user interface) and transreflective LCD screen technology, the S177A operation is a snap! Function keys are simple and information displays are crisp and clear even in direct sunlight. The LCD display shows the splicing process with simultaneous X and Y views. Fiber magnification is the highest available in the industry - 608X, and over 200 percent stronger than FITELE's previous model, the S176.



## OPTIONAL ACCESSORIES

| P/N           | DESCRIPTION                     |
|---------------|---------------------------------|
| S177-X-S-0005 | Cooling Tray                    |
| S177-X-S-0006 | USB Cord                        |
| S177-X-S-0007 | Fiber Holder Mount              |
| S177-X-A-0009 | Loose Tube Holders              |
| S177-X-A-0011 | Work Stand                      |
| S177-X-A-0012 | Work Table                      |
| S210          | Furukawa Fiber Stripper         |
| S707-080      | 80µm Fiber Holder               |
| S707-400      | 400µm Fiber Holder              |
| S945          | Large Capacity External Battery |

